**Inquiry into Animal Behavior**

**Problem**: Design and execute a controlled experiment to test a hypothesis about a specific case of animal behavior.

**Background:** Animals exhibit a variety of behaviors, both learned and innate, that promote their survival and reproductive success in a variety of ways. Many behaviors have a genetic and learned component.

Here some suggestions for variables: *Temperature, light, pH, substrate (surface)*

**Materials**: Materials are dependent on the design of your experiment. Typically, we have access to all common materials you might require for the conduct of this lab. Should you feel that other materials are necessary, or that there may be a question as to the availability of a required material, please consult with your instructor.

**ADDITIONAL Prelab steps to complete before beginning your experiment in your notebook:** (make sure you still complete steps 1-10 thoroughly)

11. How will you be able to do a chi-square analysis?

12. Go to the website: <http://www.phschool.com/science/biology_place/labbench/lab11/intro.html>

Read through the lab tutorial and complete the lab quiz.

**Put your answers in your prelab** from the quiz.

13. Answer the following questions regarding the online lab:

a. How do isopods orient themselves with respect to moisture?

b. Was orientation achieved through taxis or kinesis? Explain.

c. How might this behavior show ultimate causation?

\*\*After reviewing your protocol and discussing any safety hazards, your instructor **must** **approve** your protocol

*before* you can conduct your experiment.